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/Claire Rhee/

Claire Rhee

Applicant: Keun Ho CHUN et al.

Serial No.: 10/684,346

Filed: October 11, 2003

Confirmation No. 9221

Title: **TARGET DETECTION SYSTEM  
HAVING A CONFORMATIONALLY  
SENSITIVE PROBE COMPRISING A  
NUCLEIC ACID BASED SIGNAL  
TRANSDUCER**

Examiner: Salmon, Katherine D

Art Unit: 1634

Attorney Docket No.: 12090-05CIP2

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached forms PTO/SB/08A and PTO/SB/08B (substitutes for form 1449/PTO) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Copies of the cited documents are enclosed.

#### U.S. Patent Documents:

US 5,283,174
US 6,261,781
US 6,361,942
US 6,399,302

Non-Patent Literatures:

Morris, P.D. et al. "Biotin-streptavidin-labeled oligonucleotides as probes of helicase mechanisms" <u>Methods</u> (San Diego, California) February 2001, vol. 23, no. 2, pages 149-159.
Riccelli, P.V. et al. "Hybridization of single-stranded DNA targets to immobilized complementary DNA probes: comparison of hairpin versus linear capture probes" <u>Nucleic Acids Research</u> Oxford University Press, Surrey, Great Britain, vol. 29, no. 4, 14 February 2001, pages 996-1004.
Soh, J. et al. "Hybrid selection of mRNA with biotinylated DNA" <u>Genetic Analysis, Techniques and Applications</u> June 1990, vol. 7, no. 4, pages 80-86.
Tyagi, S. et al. "Molecular beacons: probes that fluoresce upon hybridization" <u>Bio/Technology, Nature Publishing Co.</u> , New York, US, vol 14, March 1996, pages 303-308.
Brigati, D. J. et al. "Detection of viral genomes in cultured cells and paraffin-embedded tissue sections using biotin-labeled hybridization probes." <u>Virology</u> 15 April 1983, vol. 126, no. 1, pages 32-50.
Cook, A. F. et al. "Synthesis and hybridization of a series of biotinylated oligonucleotides" <u>Nucleic Acids Research</u> , Oxford University Press, Surrey, Great Britain, vol 16, no. 9, 11 May 1988.
Telser J. et al. "Synthesis and characterization of DNA oligomers and duplexes containing covalently attached molecular labels: Comparison of biotin, fluorescein, and pyrene labels by thermodynamic and optical spectroscopic measurements" <u>Journal of the American Chemical Society</u> , 1989 U.S., vol. 111, no. 18, pages 6966-6976.
Cohen, C. B. et al. "A Microchip-Based Enzyme Assay for protein Kinase A" <u>In Anal. Biochem.</u> (1999) Vol. 273:89-97.
Simeonov, A. et al. "Enzyme assays by fluorescence polarization in the presence of polyarginine: study of kinase, phosphatase, and protease reactions" <u>In Anal. Biochem.</u> (15 May 2002) Vol. 304(2): 193-199.

Foreign Patent Documents:

US 2002/142300 A1
WO 97/09342

It is respectfully requested that the Examiner indicate consideration of the cited references by returning copies of the attached forms **[PTO/SB/08A and/or PTO/SB/08B]** (substitutes for form 1449/PTO) with initials or other appropriate marks, and that the references be made of record as cited references in the application.

The Commissioner is authorized to charge JHK Law's Deposit Account No. **502486** for any fees required under 37 CFR §§ 1.16 and 1.17 and to credit any overpayment to said Deposit Account No. **502486**.

Respectfully submitted,

JHK Law

Dated: October 27, 2008

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